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EXAMINER

YUN, EUGENE

ART UNIT PAPER NUMBER

2682

DATE MAILED: 07/13/2004

13

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/767,322

Applicant(s)

TRICARICO, DEAN JAMES

Examiner

Eugene Yun

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-14 and 19 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-14 and 19 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 May 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 12.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 2, 4, 5, 7-13, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Janky (US 5,629,693) in view of Bi et al. (US 6,438,380).

Referring to Claim 1, Janky teaches a mobile device, comprising:

a positioner (see LDR in ABSTRACT) configured to determine geographic position information related to the device; and

a transceiver (fig. 4) assigned a unique mobile number by a wireless communication system in which the device operates, said transceiver being communicatively coupled to the positioner, and configured to receive position requests directed to the mobile number and to transmit the position information in response to the position requests (see 2nd half of ABSTRACT).

Janky does not teach the transceiver continuously transmitting a tone in response to a received position request if the positioner is unable to determine the position information, and further wherein the tone is used for determining the position information. Bi teaches the transceiver continuously transmitting a tone in response to a received position request if the positioner is unable to determine the position information (see col. 7, lines 19-30), and further wherein the tone is used for determining the

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position information (see col. 7, lines 31-37). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Bi to said device of Janky in order to more accurately determine the location of a mobile device without increasing interference for other mobile telephones in the same area.

Referring to Claim 11, Janky teaches a wireless communication system comprising at least one network node and a plurality of wireless devices, the wireless communication system configured to associate a mobile number with each device, each device comprising:

a positioner (see LDR in ABSTRACT) configured to determine position information related to the device; and

a transceiver (fig. 4) communicatively coupled to the positioner, said transceiver being configured to receive position requests directed to the respective mobile number assigned to the particular device and to transmit the position information in response to the position requests (see 2nd half of ABSTRACT).

Janky does not teach the transceiver continuously transmitting a tone in response to a received position request if the positioner is unable to determine the position information, and further wherein the tone is used for determining the position information. Bi teaches the transceiver continuously transmitting a tone in response to a received position request if the positioner is unable to determine the position information (see col. 7, lines 19-30), and further wherein the tone is used for determining the position information (see col. 7, lines 31-37). Therefore, it would have been obvious to

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one of ordinary skill in the art at the time the invention was made to provide the teachings of Bi to said device of Janky in order to more accurately determine the location of a mobile device without increasing interference for other mobile telephones in the same area.

Referring to Claim 19, a method of determining geographic position information of a mobile device that is communicatively coupled to a wireless communication system comprising:

receiving a position request at the mobile device (see 2nd half of ABSTRACT);
and

determining the geographic position information at the mobile device (see LDR of ABSTRACT).

Janky does not teach continuously transmitting a tone from the mobile device to the wireless communication system if the geographic position information cannot be determined at the mobile device, and using the tone to determine the geographic position information via triangulation. Bi teaches continuously transmitting a tone from the mobile device to the wireless communication system if the geographic position information cannot be determined at the mobile device (see col. 7, lines 19-30), and using the tone to determine the geographic position information via triangulation (see col. 7, lines 31-37). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Bi to said device of Janky in order to more accurately determine the location of a mobile device without increasing interference for other mobile telephones in the same area.

Referring to Claim 2, Janky also teaches a GPS receiver (see col. 11, lines 26-28).

Referring to Claim 4, Janky also teaches the positioner and transceiver included on a removable card installed in the device (see figs. 1-3 where the device can be removed from the vehicle).

Referring to Claim 5, Janky also teaches a wireless transceiver (fig. 4).

Referring to Claim 7, Janky also teaches a first power source and a second power source, wherein the first power source is configured to supply power to the device (see col. 4, lines 39-41), and wherein the second power source is configured to continuously supply power to the positioner and to the transceiver (see col. 7, lines 3-5).

Referring to Claim 8, Janky also teaches the first power source configured to supply power to the device, including the positioner and transceiver (see col. 4, lines 39-41), and wherein the second power source is configured to supply power to the positioner and the transceiver whenever the first power source is unavailable (see col. 7, lines 3-5).

Referring to Claim 9, Janky also teaches a positioner IC and a transceiver IC (fig. 4).

Referring to Claim 10, Janky also teaches the positioner and transceiver located in a location IC (fig. 4).

Referring to Claim 12, Janky also teaches the transceiver within a particular device activated when a call is placed through the wireless communication system to the mobile number associated with the device, and wherein the location transceiver is

configured to obtain the position information from the positioner (see ABSTRACT), and to continuously transmit the position information to the network node, as soon as the location transceiver is activated (see col. 3, lines 52-57)

Referring to Claim 13, Janky also teaches the network node configured to route the position information to a location information center (see ABSTRACT).

3. Claims 6 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Janky and Bi in view of Pace, II (US 5,712,899).

Referring to Claim 6, the combination of Janky and Bi does not teach the wireless transceiver configured to transmit and receive information using at least one of the following communication protocols: CDMA, TDMA, GSM, and WCDMA. Pace teaches the wireless transceiver configured to transmit and receive information using at least one of the following communication protocols: CDMA, TDMA, GSM, and WCDMA (see col. 5, line 65). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Pace to said device of Janky in order to ensure better signal reception without error.

Referring to Claim 14, the combination of Janky and Bi does not teach the location control center configured to generate a map, and to locate a respective device on the map, based on received position information from the device. Pace teaches the location control center configured to generate a map, and to locate a respective device on the map, based on received position information from the device (fig. 9). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was

made to provide the teachings of Pace to said device of Janky in order to more quickly determine the location of a mobile device.

Response to Arguments

4. Applicant's arguments filed 4/29/2004 have been fully considered but they are not persuasive.

The applicant believes that the Bi reference does not teach the limitations of the independent claims stating "the transceiver continuously transmitting a tone in response to a received position request if the positioner is unable to determine the position information, and further wherein the tone is used for determining the position information". First of all, it is clear that the traffic channel signal continuously transmitted by the mobile telephone in the Bi reference is used for determining position information as shown in col. 7, lines 31-37. Second of all, the examiner reads on the reference in a way that the mobile telephone would not continuously transmit the traffic channel signal (col. 7, lines 19-21) if the first acknowledgement from the base station (col. 7, lines 14-16) did not include another request for another signal from the mobile station which can be used to determine position information. Therefore, the examiner believes that the first acknowledgement, which is also the traffic channel assignment, transmitted from the base station includes the "received position request" (also a term that can be read on in a broad manner) as claimed in the applicant's claimed invention because the base station in the reference is also in need of the traffic channel signal, which is transmitted

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by the mobile telephone, in order to have a better estimate of the mobile telephone's location.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).


A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Yun whose telephone number is (703) 305-2689. The examiner can normally be reached on 8:30am-5:30pm Alt. Fridays off.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (703) 308-6739. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Eugene Yun
Examiner
Art Unit 2682

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